

SECRET

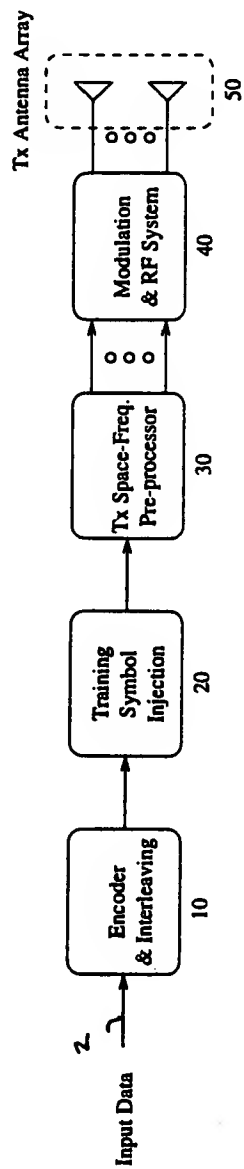


Figure 1

26

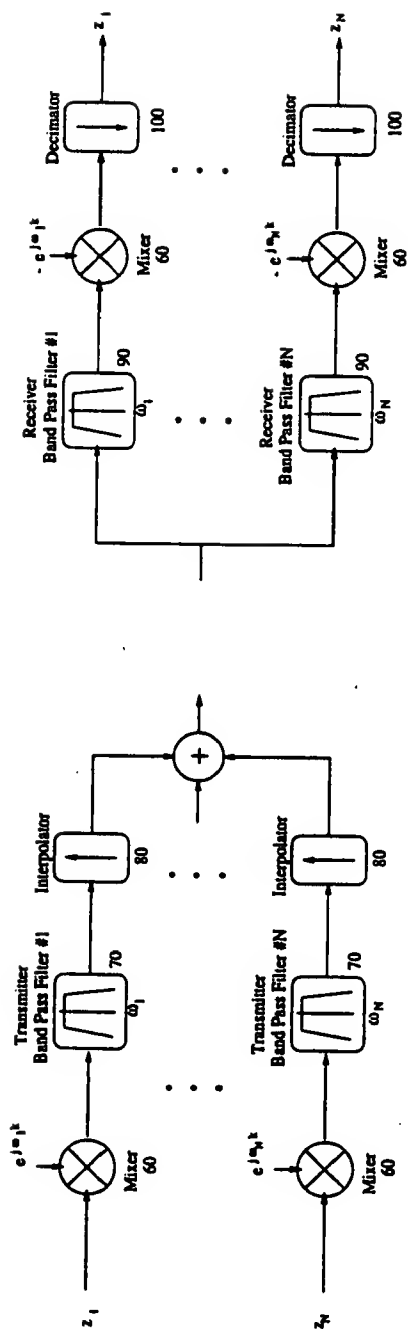
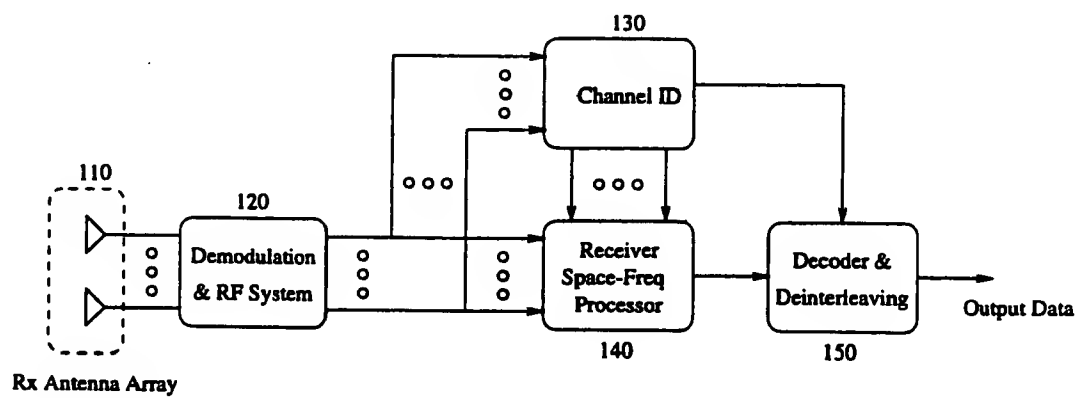


Figure 2



Multipath can be more than one reflected or refracted path in a wireless propagation channel with antenna elements that have one polarization.

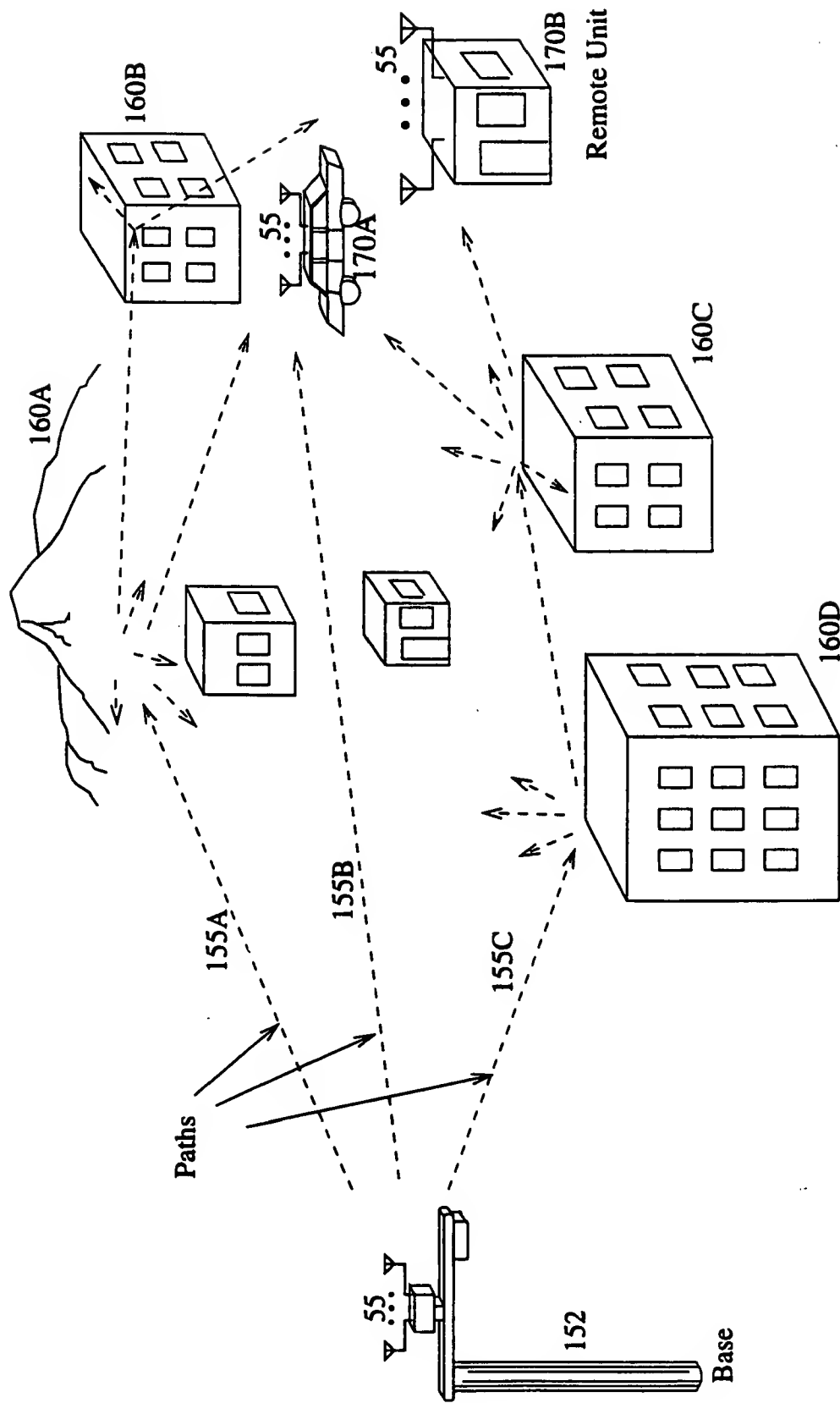


Figure 4

Multipath can be one or more paths with polarization A and one or more paths with polarization B. The two sets of paths may or may not be orthogonal.

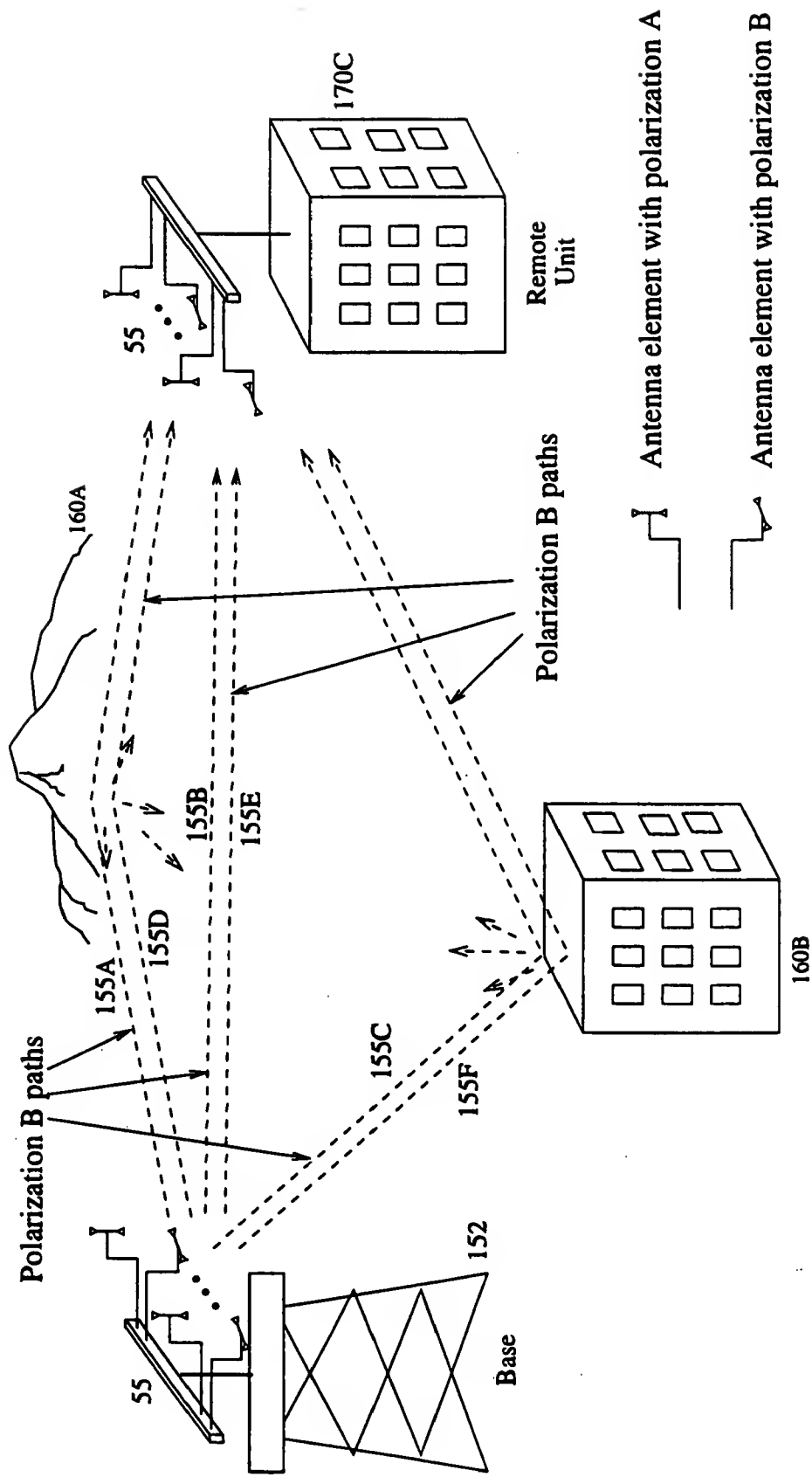


Figure 5

Multipath can be one or more paths between a remote and one radio port
and one or more paths between the remote and another radio port.

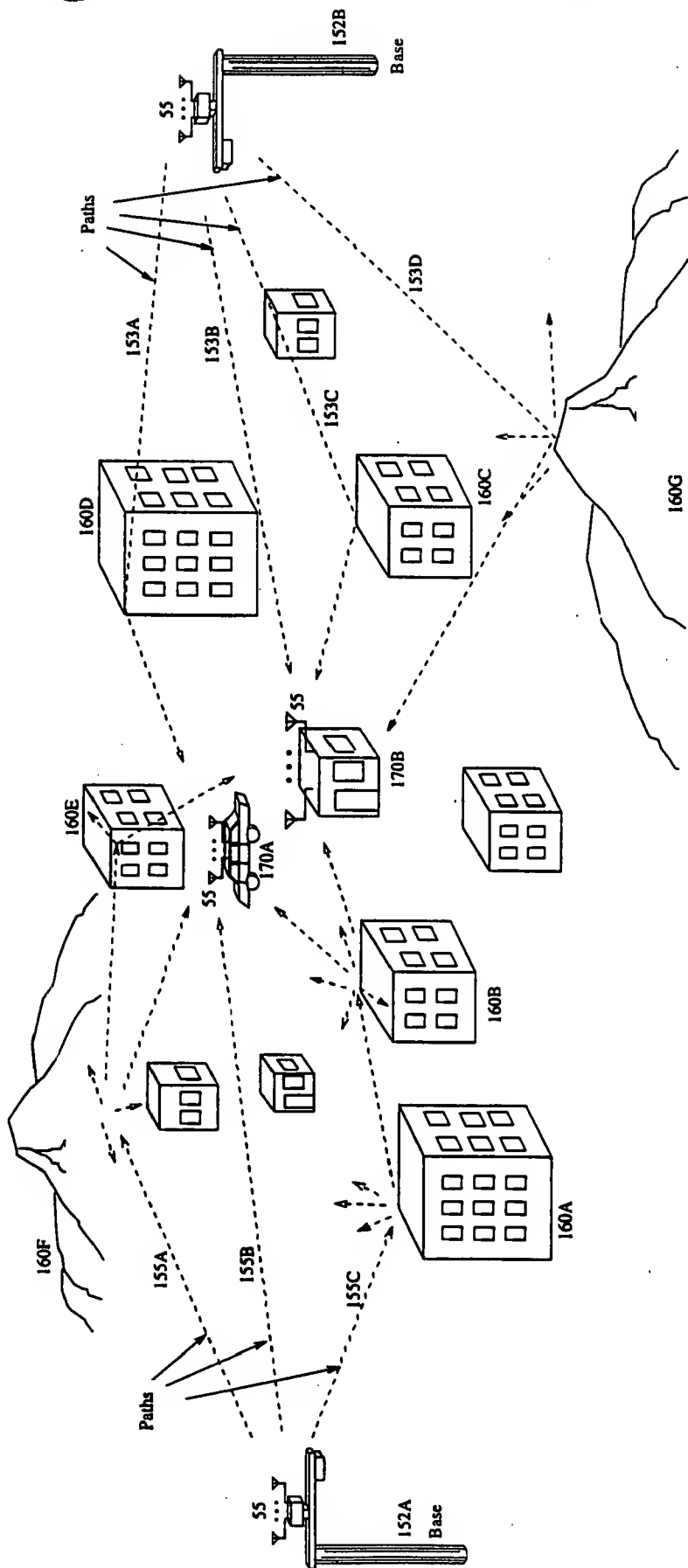


Figure 6

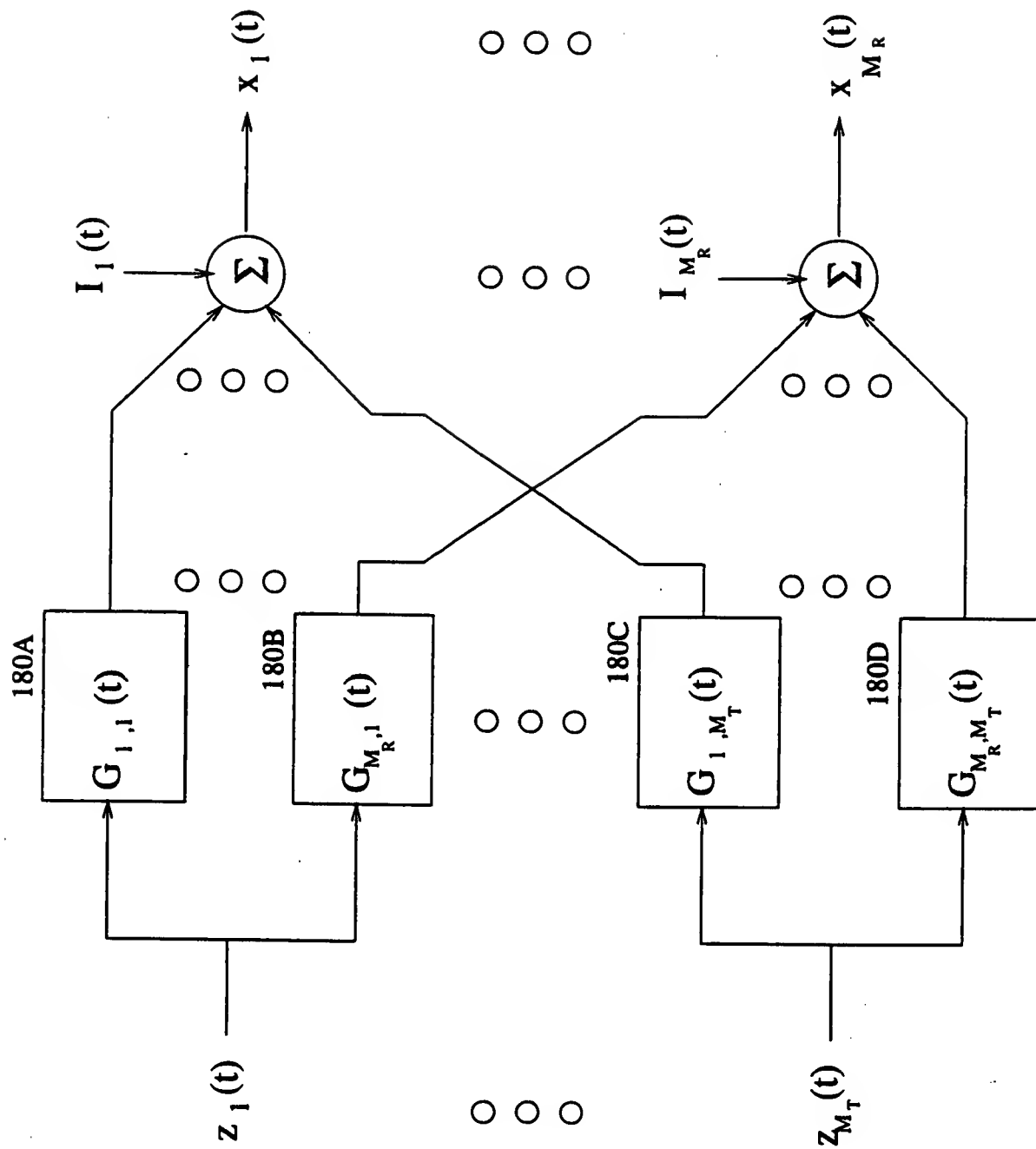


Figure 7

FIG. 8 is a block diagram of a system for transmitting and receiving signals. The system includes a Transmitter SOP (190) which receives input signals bin 1, bin N, and others. The Transmitter SOP (190) is connected to a Modulation and RF System (40), which is connected to a Transmit Antenna (51). The Transmit Antenna (51) is connected to a Receive Antenna (111). The Receive Antenna (111) is connected to a Demodulation and RF System (120), which is connected to a Receiver SOP (200). The Receiver SOP (200) outputs signals bin 1, bin N, and others.

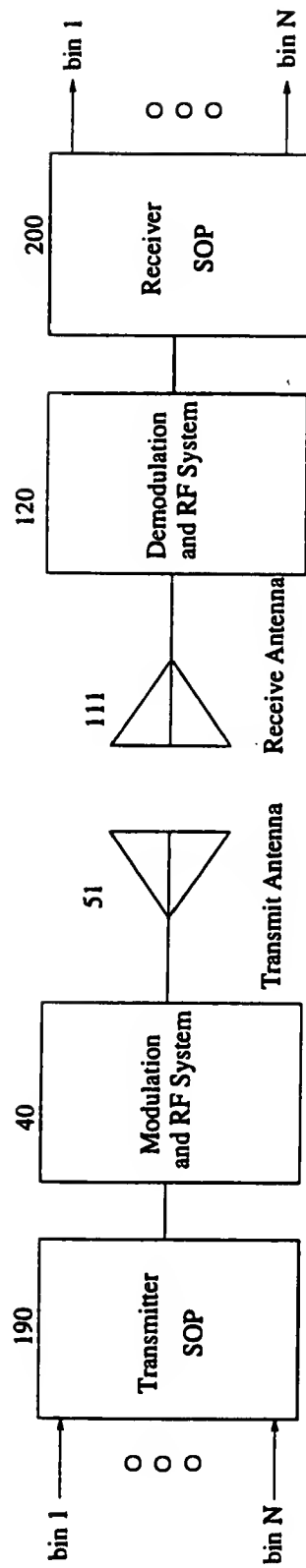


Figure 8

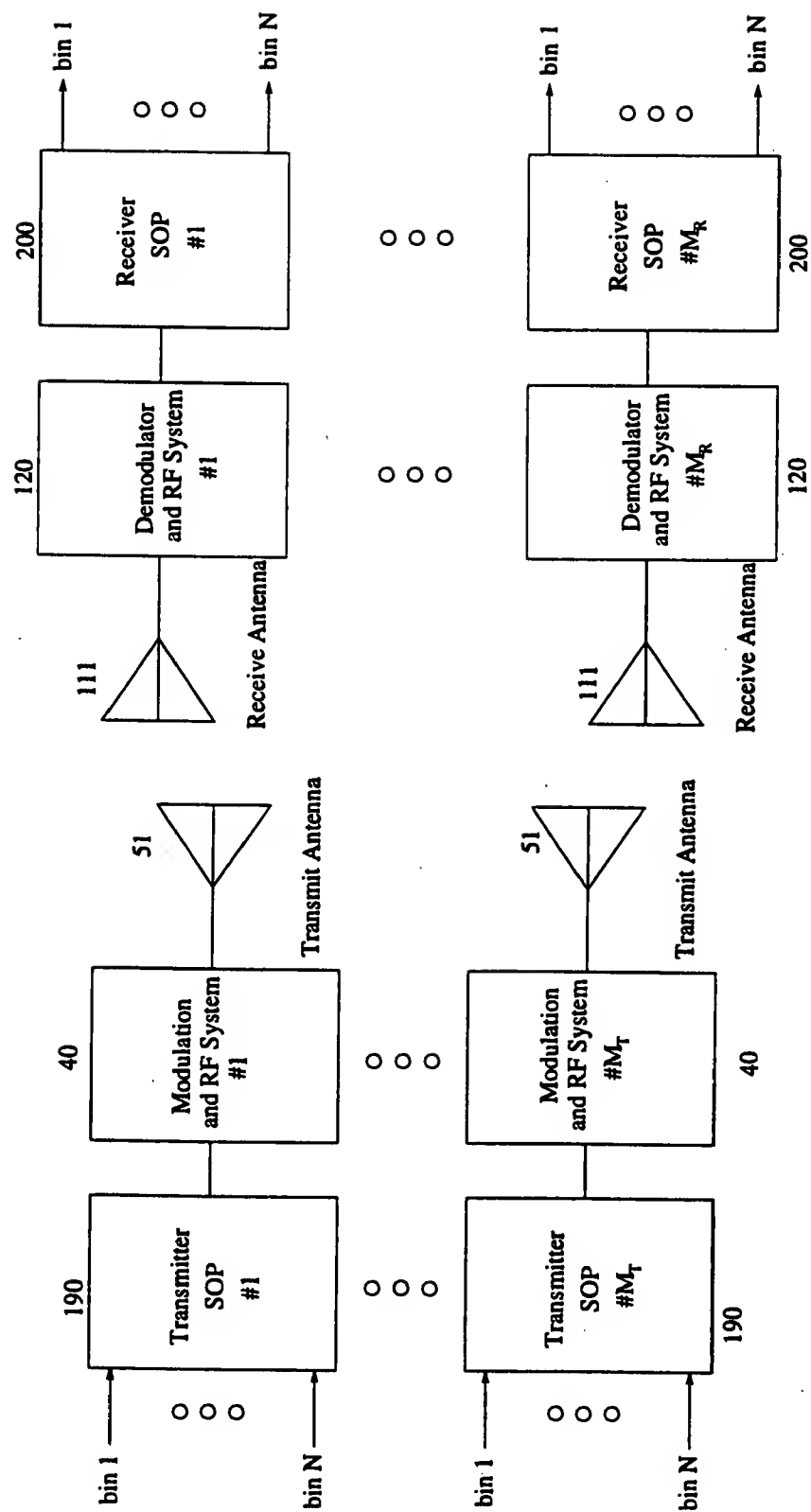


Figure 9

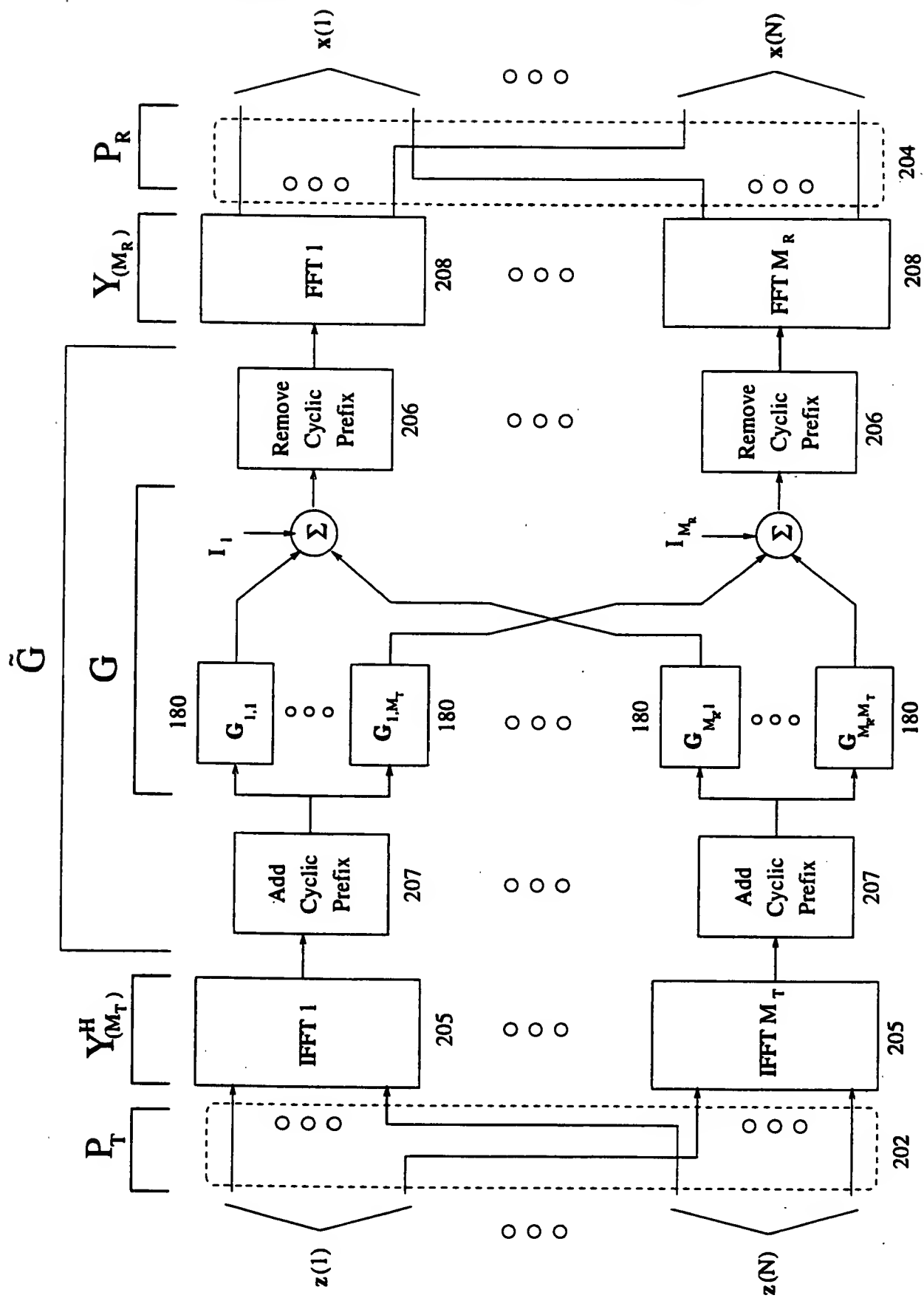


Figure 10

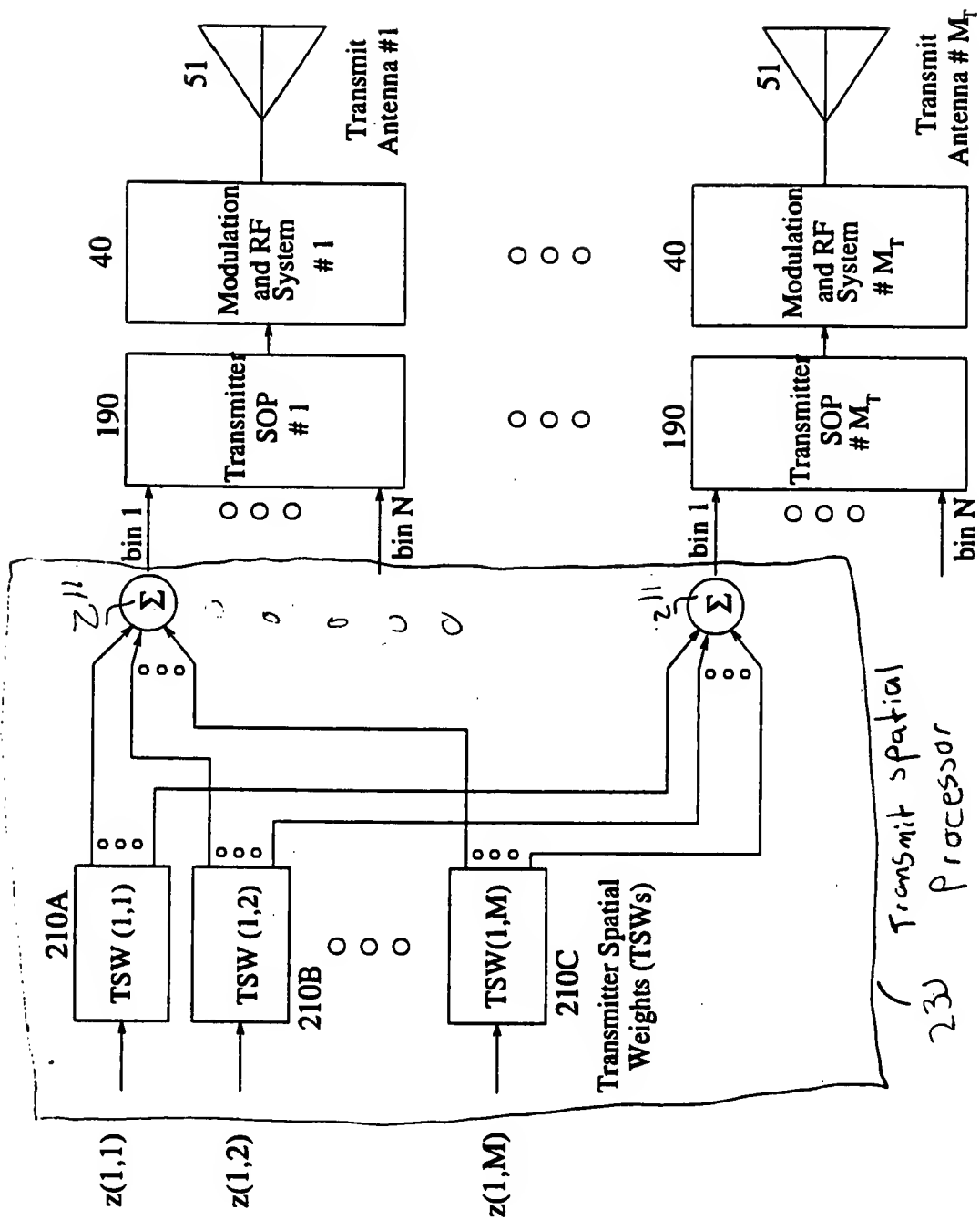


Figure 11

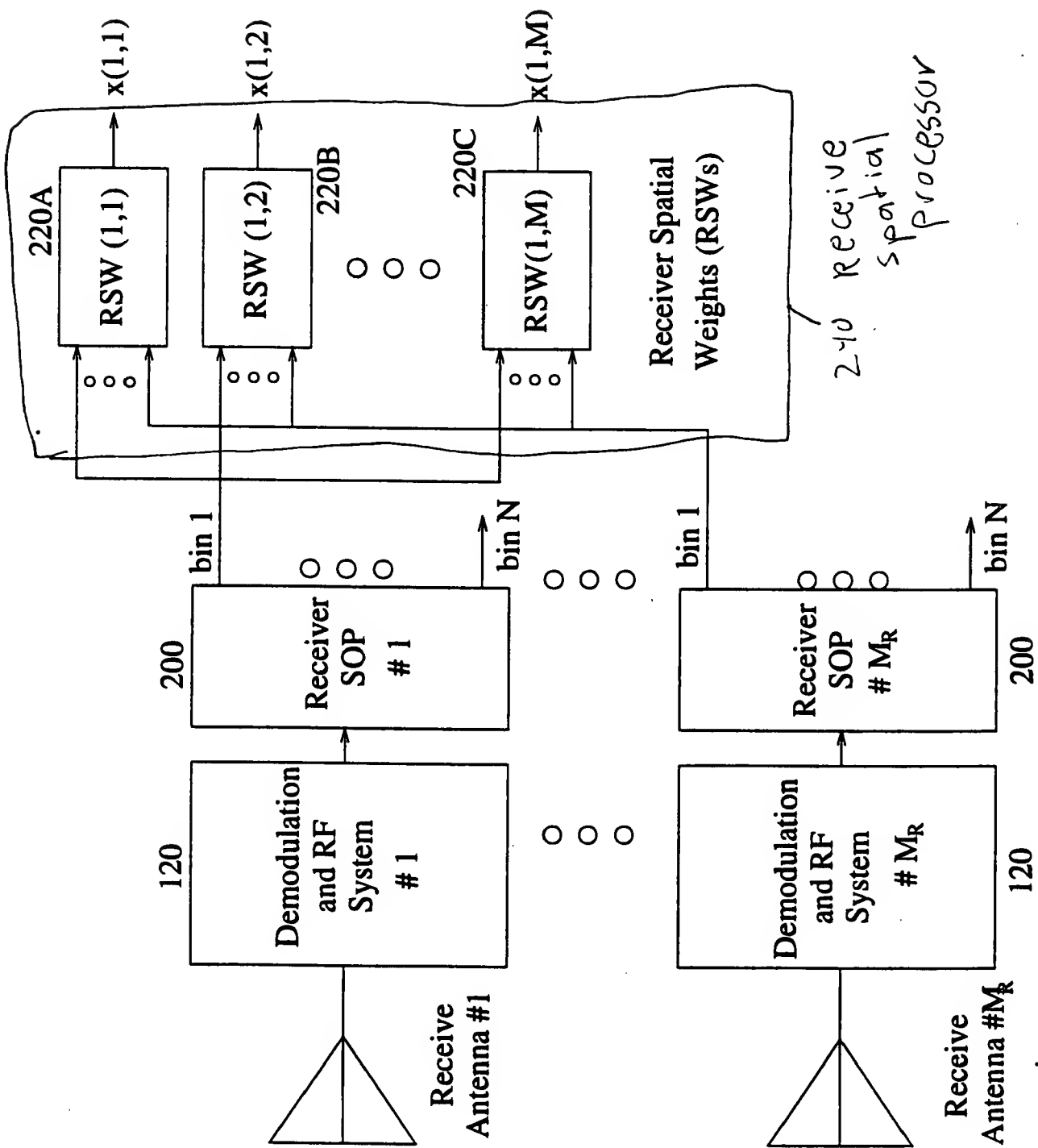


Figure 12

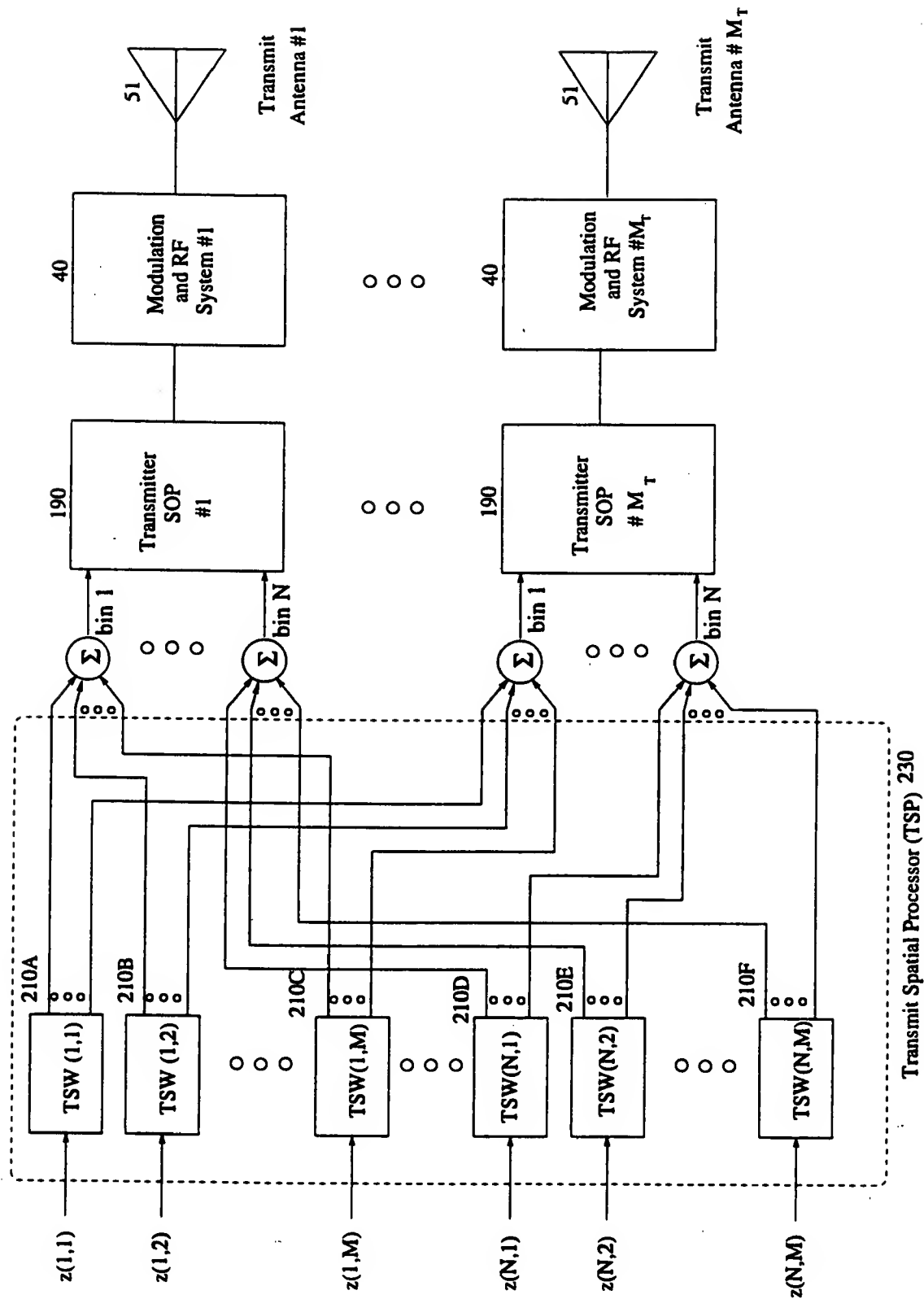


Figure 13

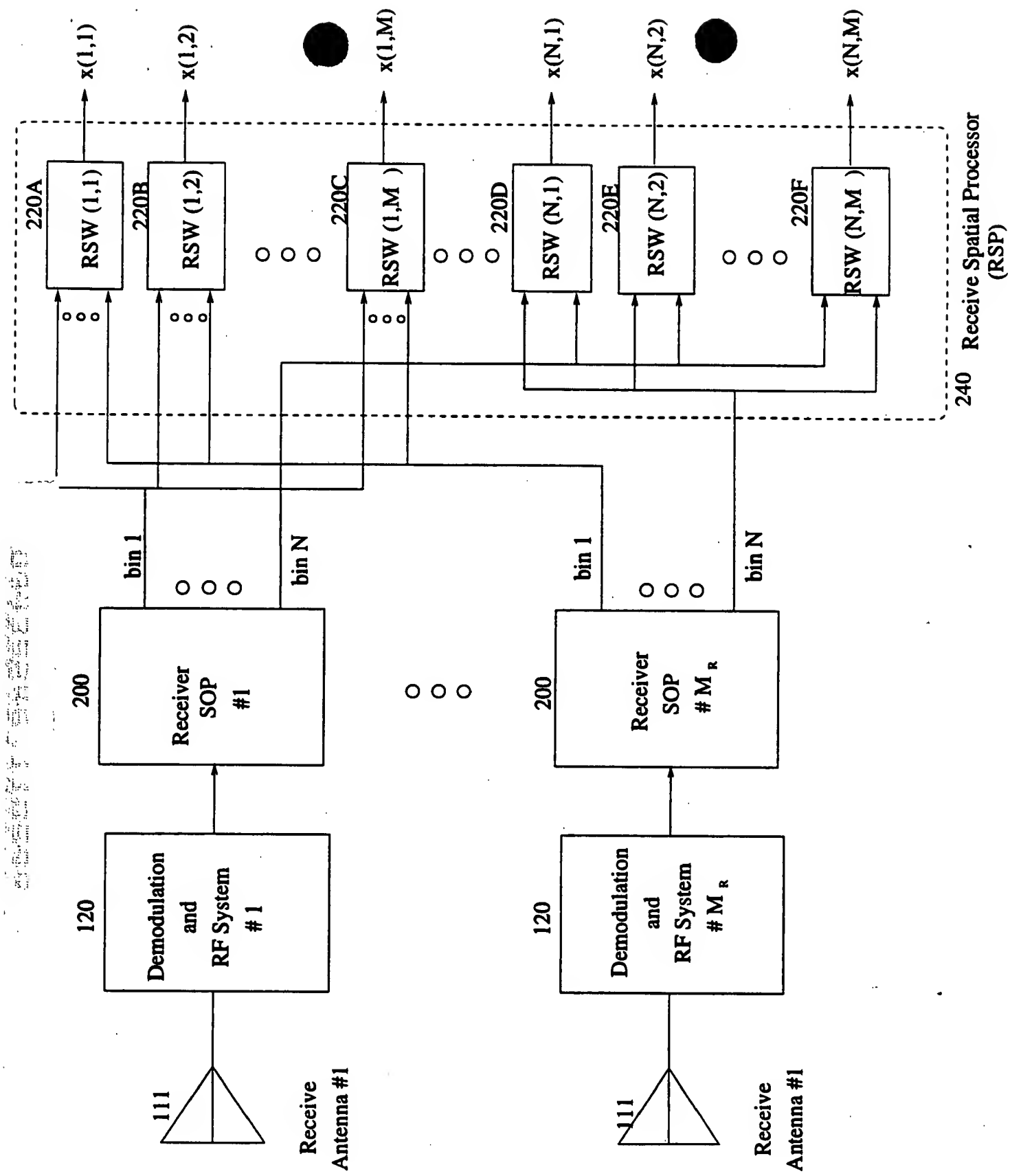


Figure 14

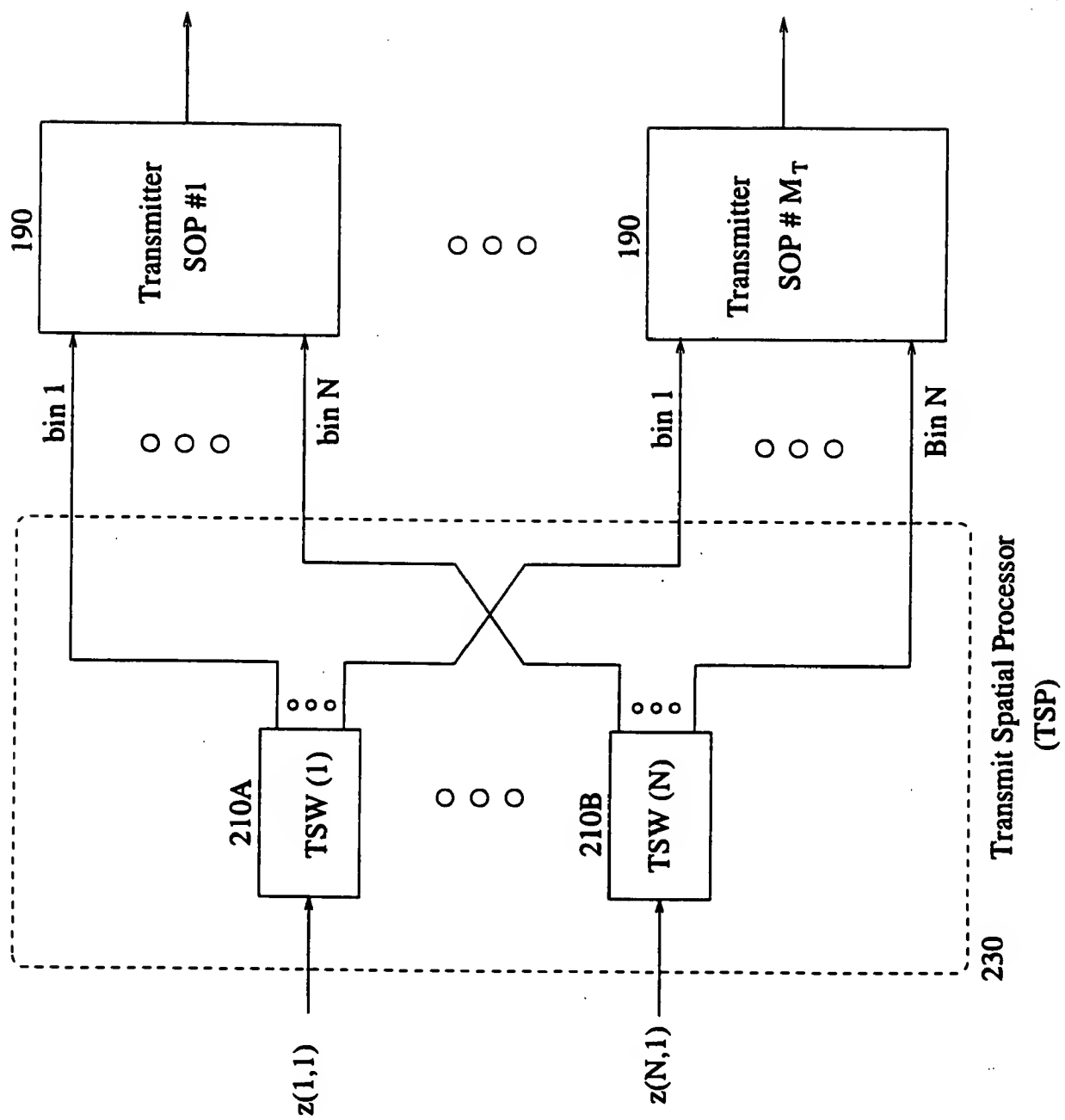


Figure 15

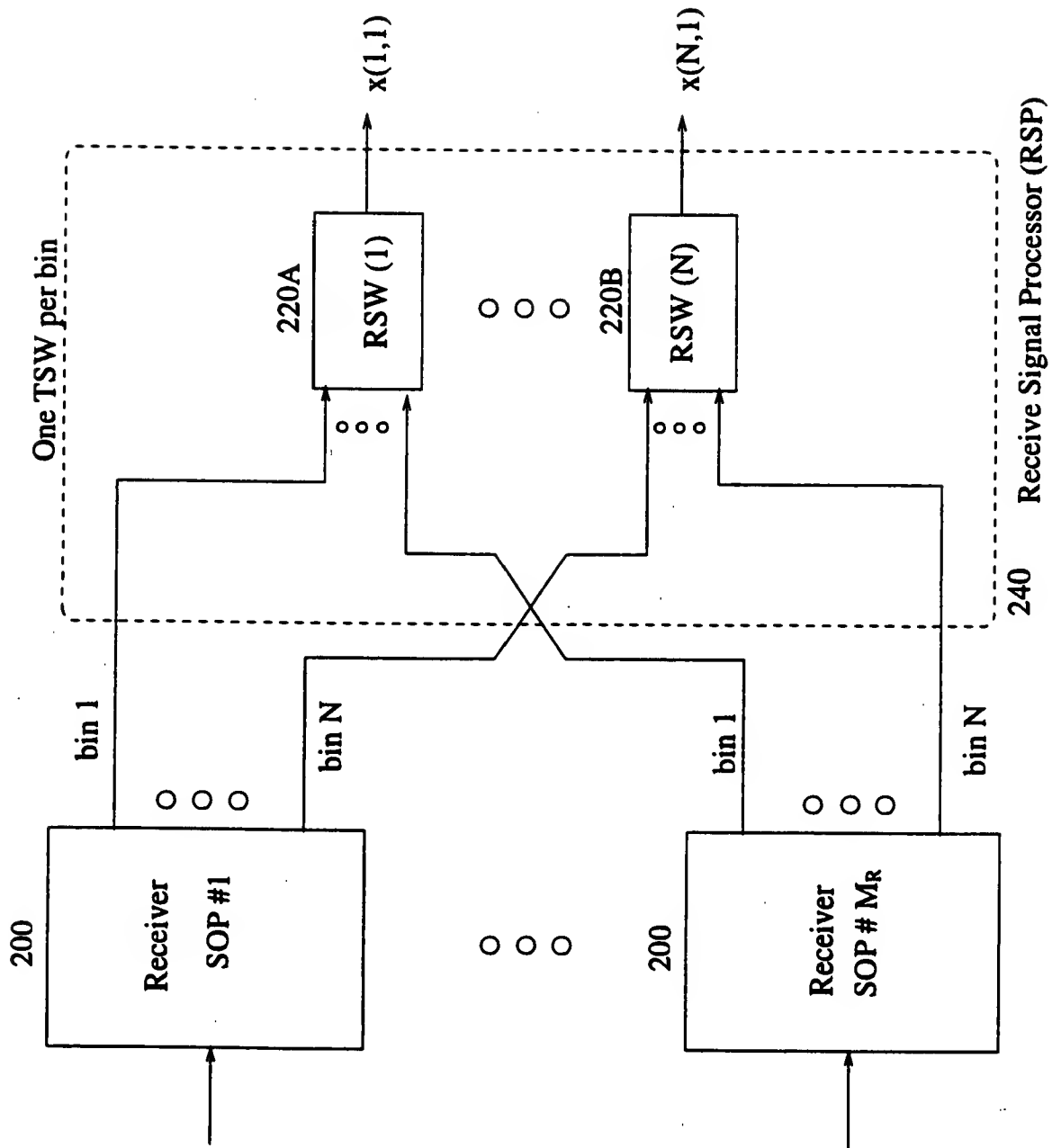


Figure 16

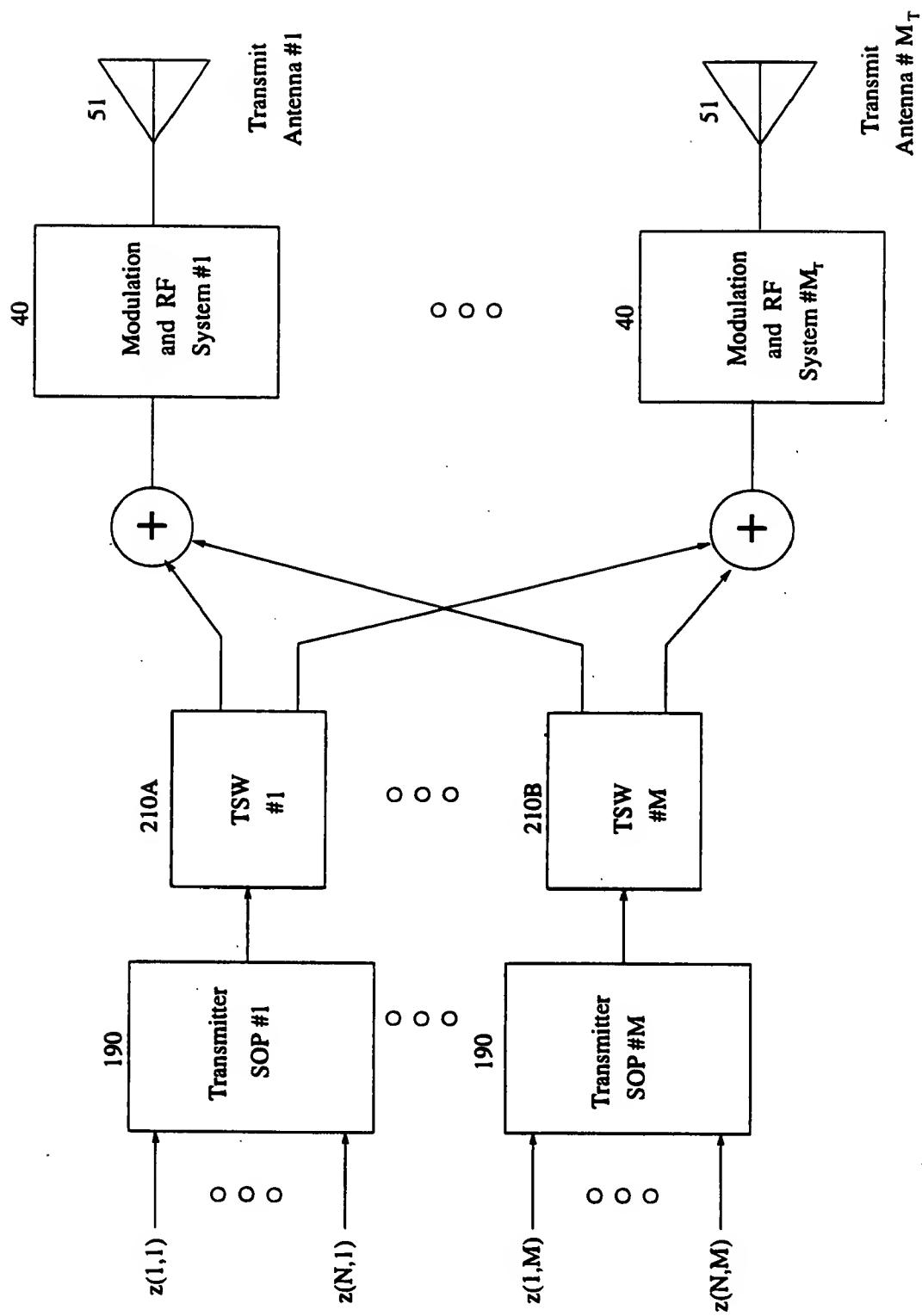


Figure 1.7

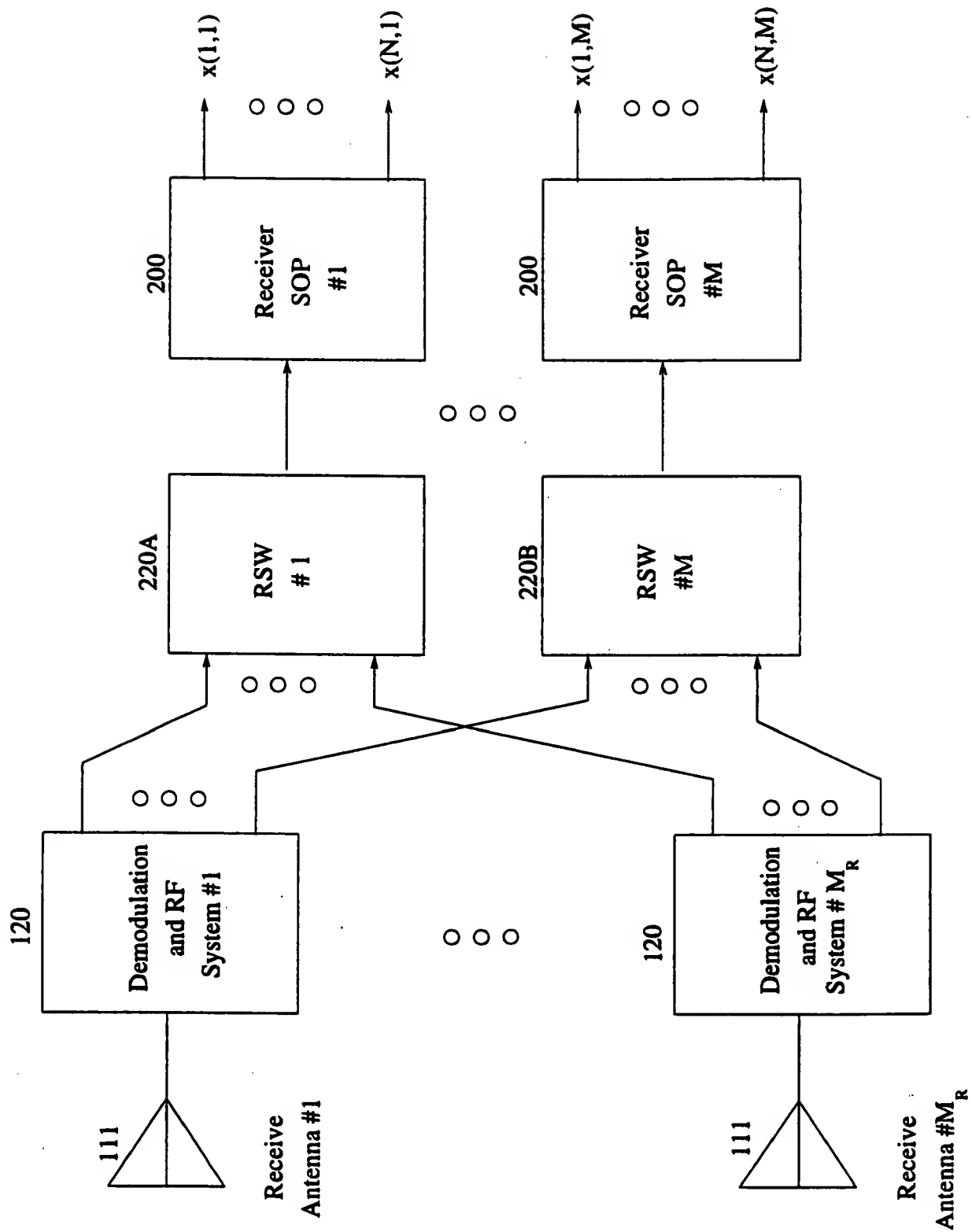


Figure 18

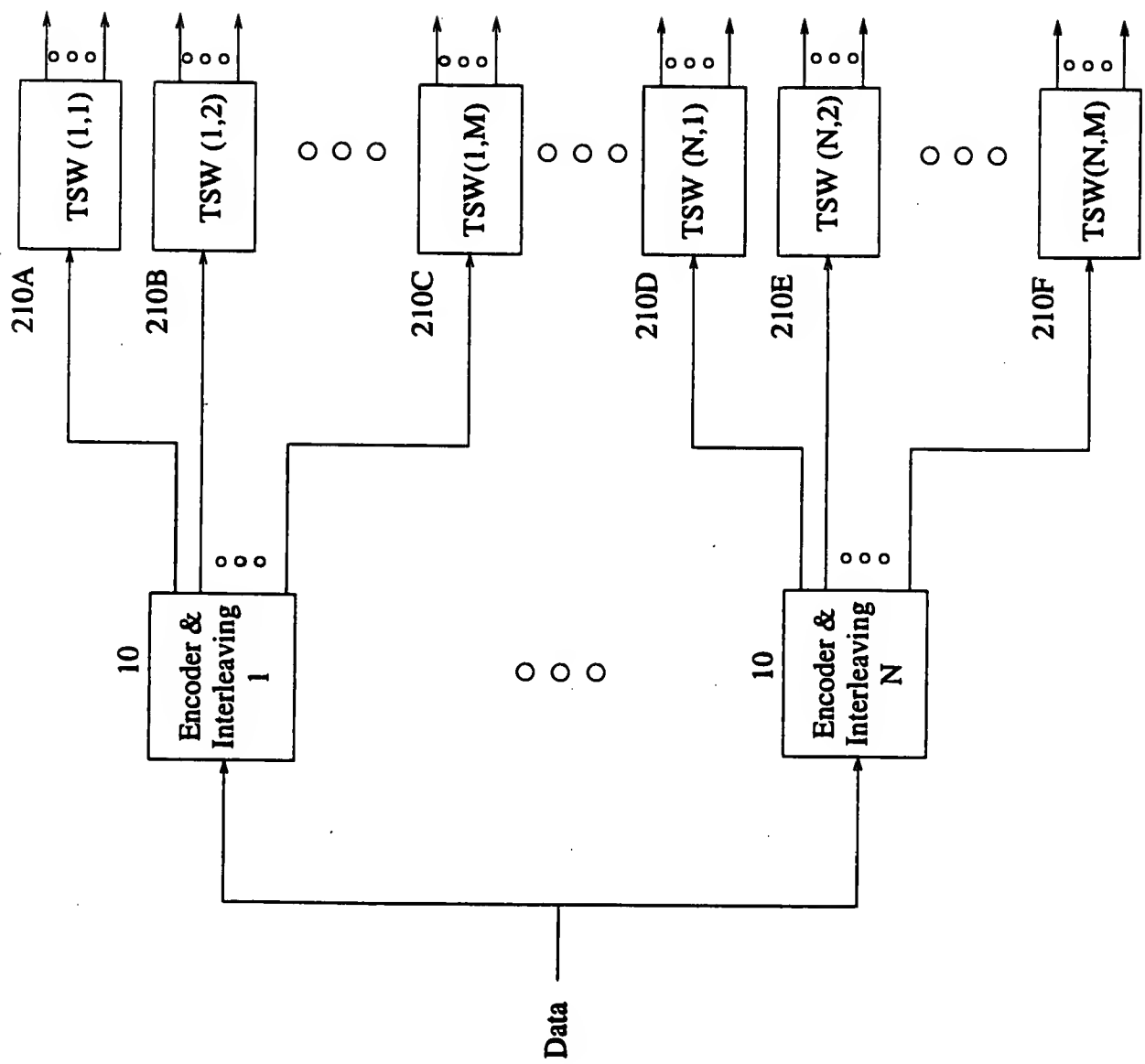


Fig. 19

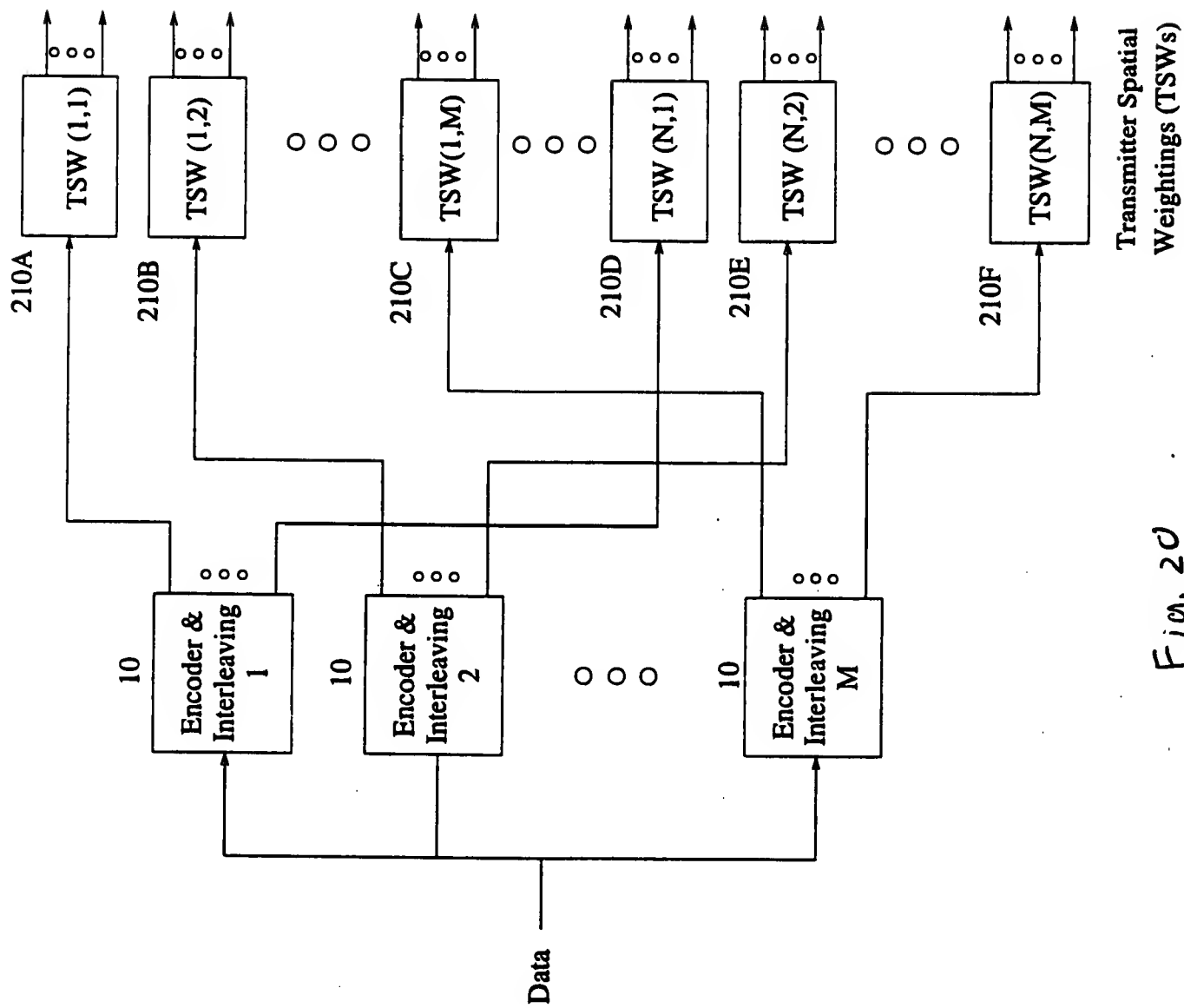


Fig. 20

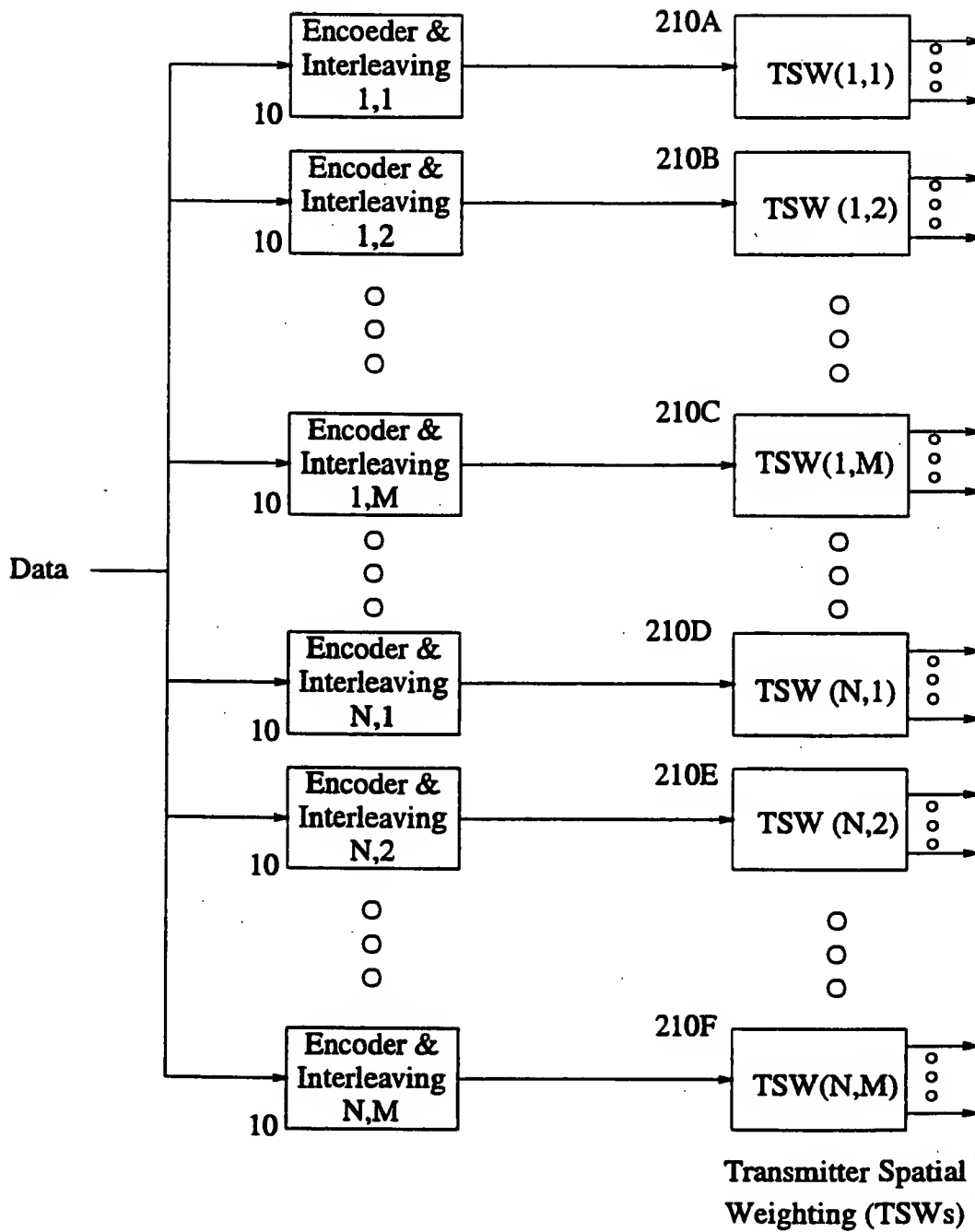
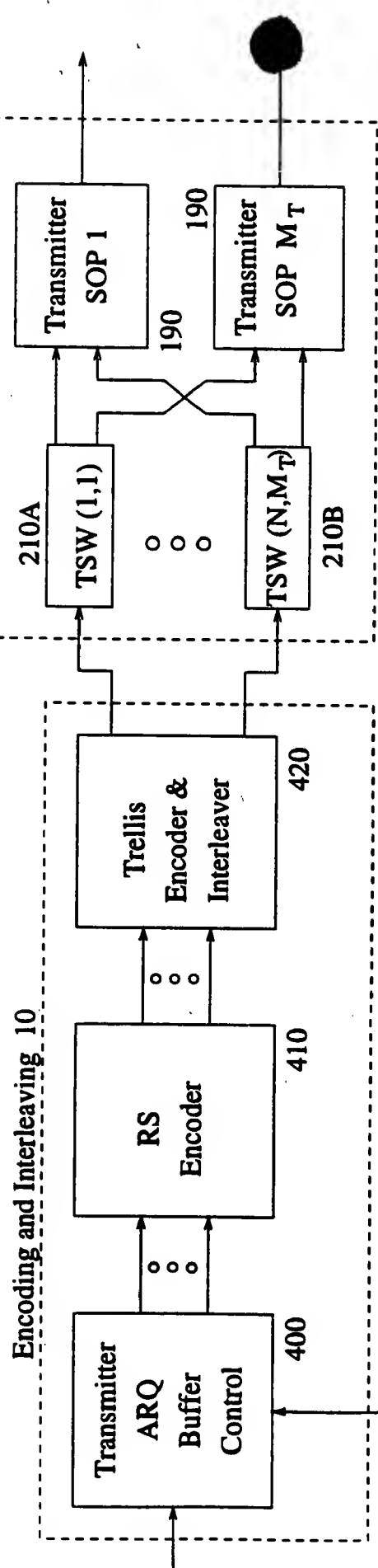


Fig. 21

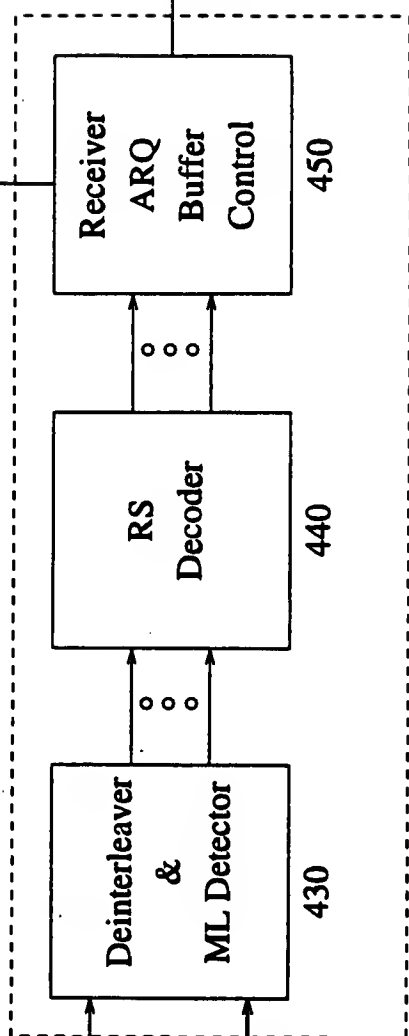
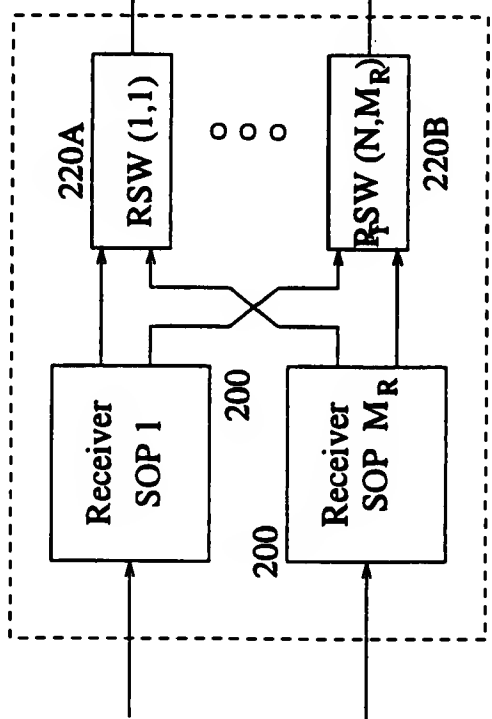
66333-1

$i \times$ Space-Freq. Pre-Processor 30

Encoding and Interleaving 10



Reverse Control Channel 460



Decoder and Deinterleaving 150

Receiver Space-Freq. Processor 140

Fig 22

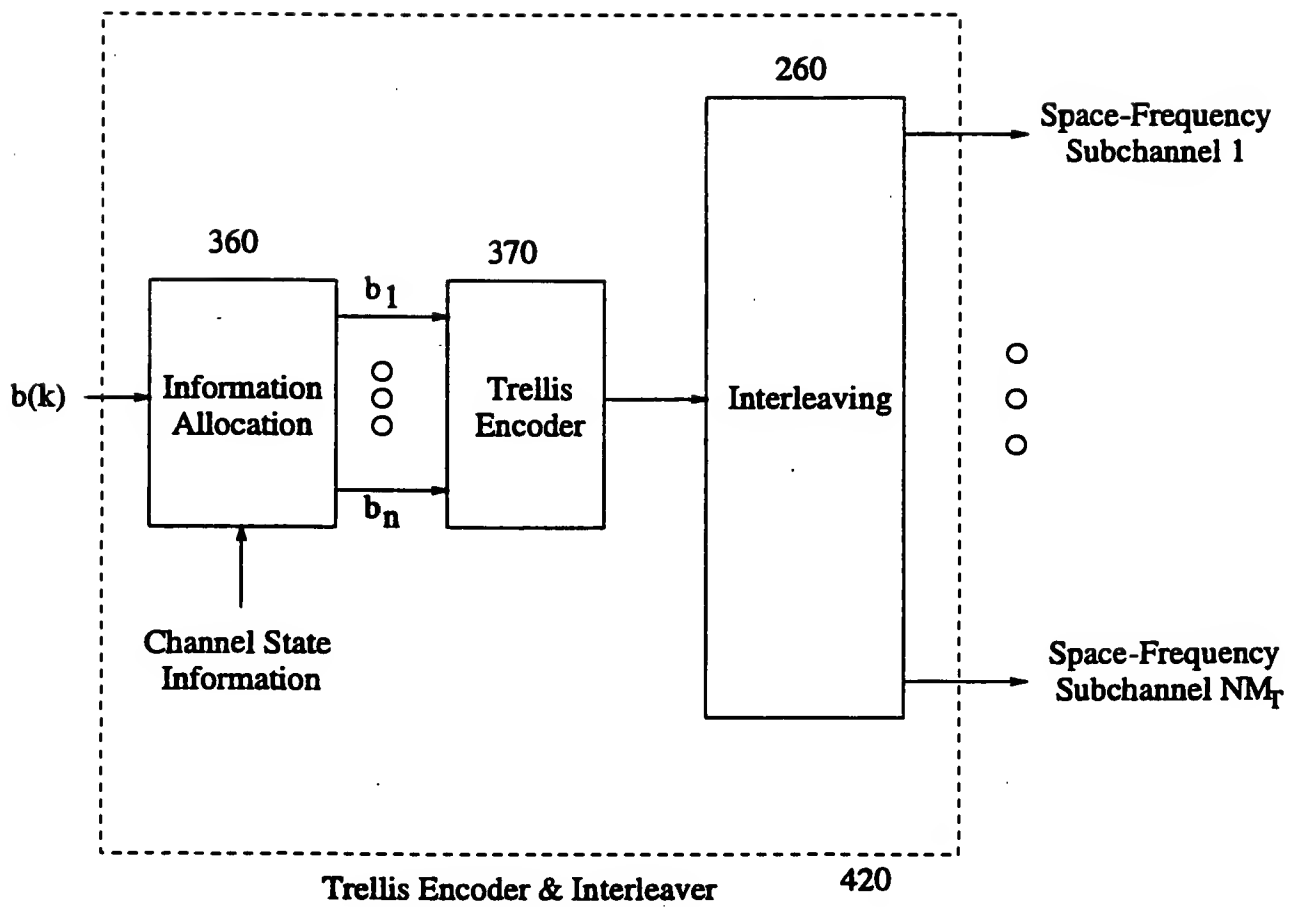


Fig. 23

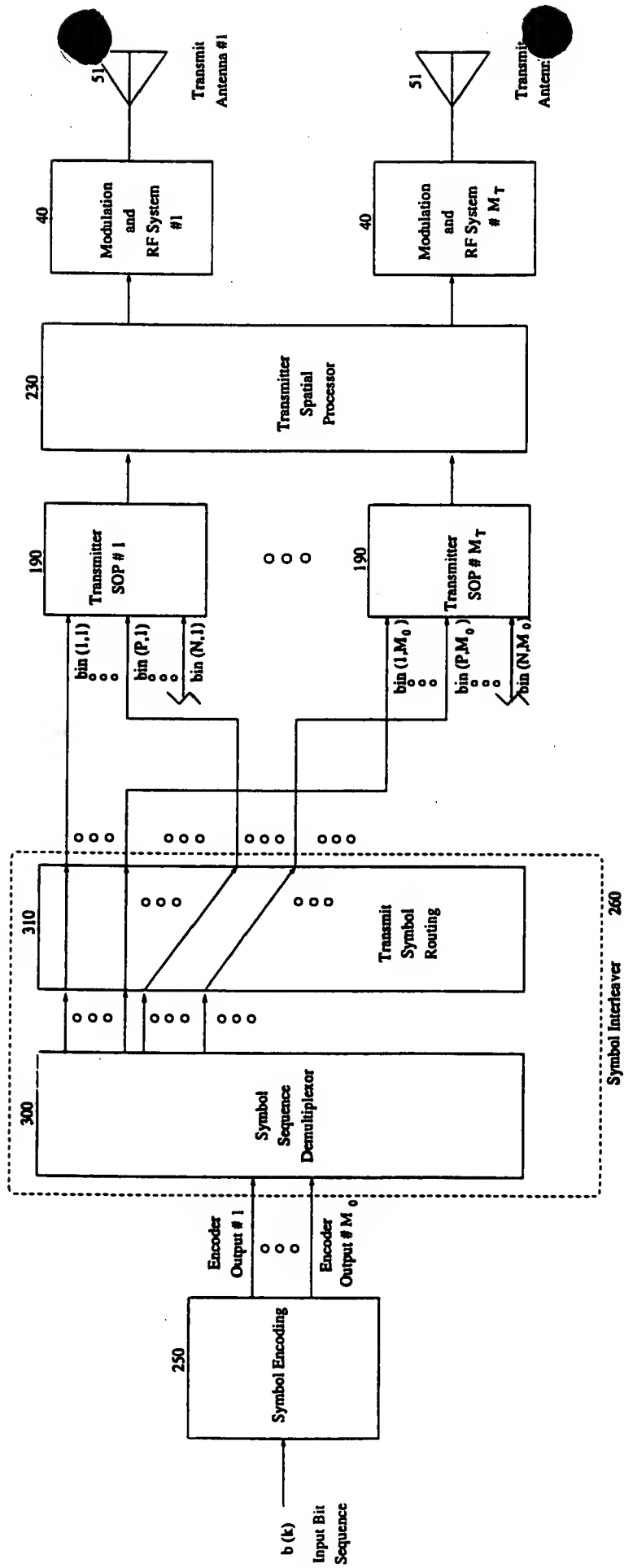


Fig. 24

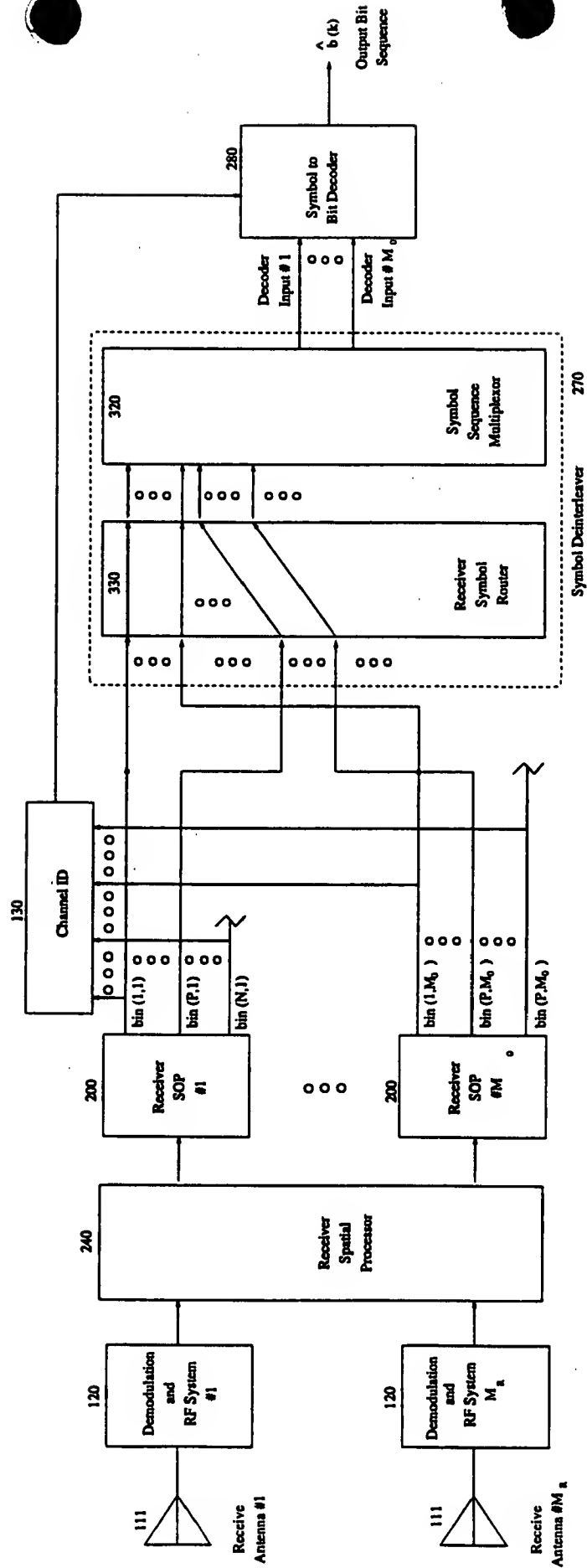


Fig. 25

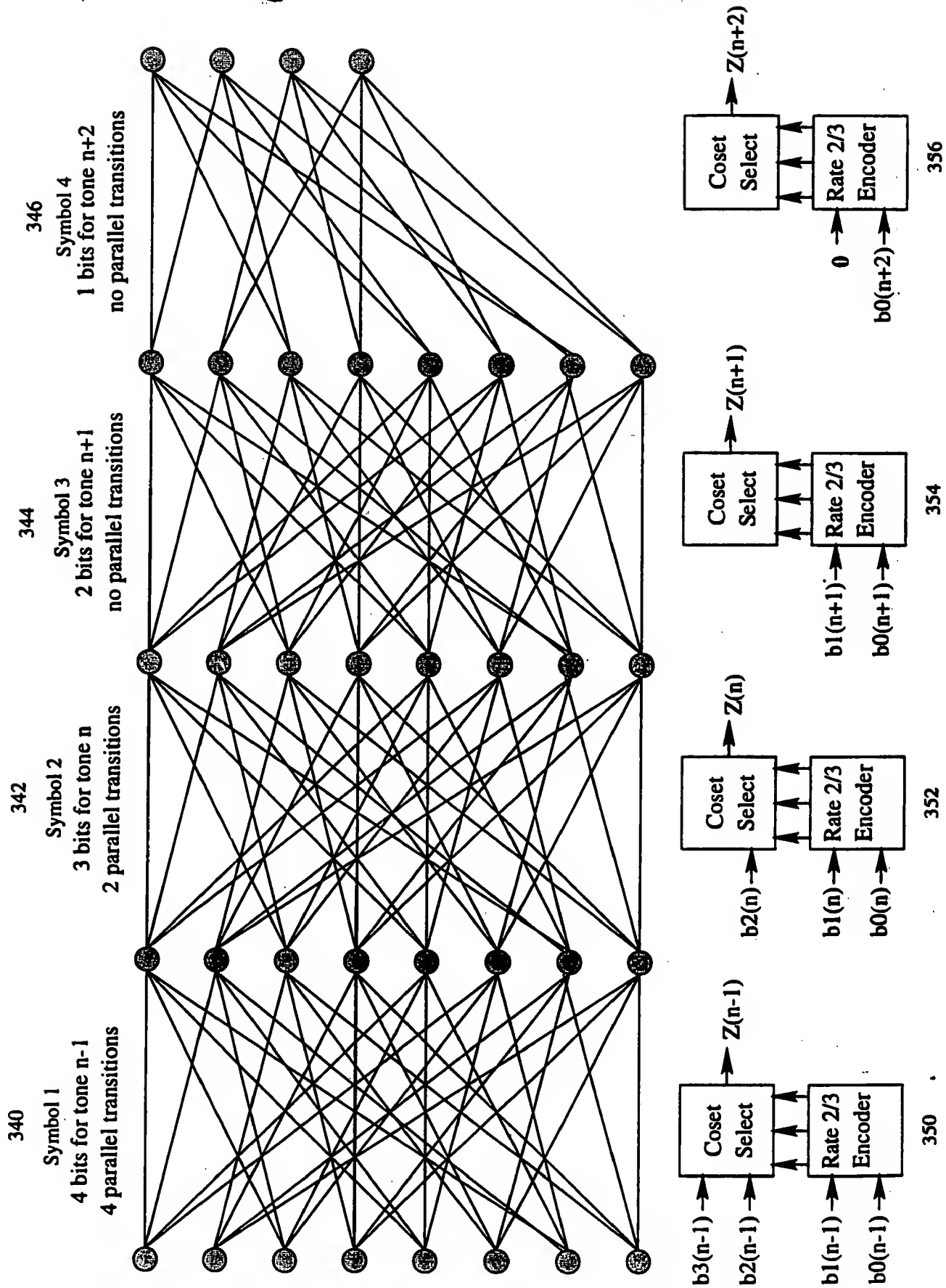


Fig. 26